Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

- (Currently amended) A luminaire system <u>configured to generate</u> for generating white light with a desired correlated colour temperature, the luminaire system comprising:
 - a) a light module including:
- i) one or more white light-emitting elements <u>configured to generate a first forgenerating</u> white light having a particular correlated colour temperature;
- ii) one or more first colour light-emitting elements <u>configured to generate for</u> generating light of a first colour;
- iii) one or more second colour light-emitting elements <u>configured to generate forgenerating</u> light of a second colour...[[;]]

wherein the one or more white light-emitting elements are configured to generate the first white light independent of each of the light of the first colour generated by the one or more first colour light-emitting elements and the light of the second colour generated by the one or more second light-emitting elements;

- b) a feedback system <u>configured to collect</u> for collecting operational temperature information regarding the light module;
- c) a drive and control system <u>configured to receive</u> for receiving said temperature information, and <u>configured to control</u> eontrolling the supply of power to each of the one or more white light-emitting elements, the one or more first colour light-emitting elements, and the one or more second colour light-emitting elements based on the temperature information and the desired correlated colour temperature; and
- d) an optical system <u>configured to extract and mix for extracting and mixing</u> the light generated by the light module thereby creating an output beam <u>of a second white light</u> having the desired correlated colour temperature.
- 2. (Currently amended) The luminaire system according to claim 1, wherein the feedback

system further comprises one or more optical sensors <u>configured to collect for collecting</u> optical information relating to light generated by the light module, wherein a drive and control system receives said optical information and further controls the supply of power to each of the one or more white light-emitting elements, the one or more first colour light-emitting elements, and the one or more second colour light-emitting elements based on the optical information.

- (Currently amended) The luminaire system according to claim 2 wherein the light module further comprises one or more third colour light-emitting elements <u>configured to generate for-generating</u> light of a third colour.
- (Original) The luminaire system according to claim 2, wherein the first colour light-emitting elements generate green light
- (Original) The luminaire system according to claim 4, wherein the second colour lightemitting elements generate blue or red light
- 6. (Original) The luminaire system according to claim 3, wherein the first colour light-emitting elements generate green light, the second colour light-emitting elements generate blue light and the third colour light-emitting elements generate red light.
- (Original) The luminaire system according to claim 2, wherein the white light-emitting elements, first colour light-emitting elements and the second colour light-emitting elements are manufactured using a similar material technology.
- (Original) The luminaire system according to claim 7, wherein the similar material technology is based on indium gallium nitride.
- (Currently amended) A method for generating mixed white light having a desired correlatedeolour temperature, the method comprising:

a) generating white light having a particular correlated colour temperature by one or more white light emitting elements;

b) generating a first coloured light from and mixing in a predetermined portion of light-generated by one or more first colour light-emitting elements; and

 e) generating a second coloured light from and mixing in a predetermined portion of light generated by one or more second colour light-emitting elements;

generating, from one or more white light-emitting elements, a first white light independent of each of the first coloured light and the second coloured light; and

thereby generating mixing the first coloured light, the second coloured light, and the first white light to generate a mixed white light having a the desired correlated colour temperature.

- 10. (Original) The method according to claim 9, further comprising the step of generating and mixing in light generated by one or more third colour light-emitting elements.
- 11. (Original) The method according to claim 9, further comprising the step of detecting an operational temperature of the one or more white light-emitting elements, one or more first colour light-emitting elements and one or more second colour light-emitting elements and adjusting operation of the one or more first colour light-emitting elements and one or more second colour light-emitting elements in response to the detected operational temperature.
- 12. (Original) The method according to claim 9, further comprising the step of detecting optical characteristics of the mixed white light and adjusting operation of the one or more first colour light-emitting elements and one or more second colour light-emitting elements in response to the detected optical characteristics.
- 13. (Original) The method according to claim 9, wherein the first colour light-emitting elements generate green light.
- 14. (Original) The method according to claim 13, wherein the second colour light-emitting elements generate blue or red light.

15. (Original) The method according to claim 9, wherein the first colour light-emitting elements generate green light, the second colour light-emitting elements generate blue light and the third colour light-emitting elements generate red light.

- 16. (Original) The method according to claim 9, wherein the white light-emitting elements, first colour light-emitting elements and the second colour light-emitting elements are manufactured using a similar material technology.
- 17. (Original) The method according to claim 16, wherein the similar material technology is based on indium gallium nitride.